

DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

RECEIVED

Revision 3 03/26/07

OCT 15 2007

Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

	IDENTIFICATION					
1. Company Name	LJD Holdings, Inc.					
2. Facility Name (if different than #1)	B&D Foods					
3. Facility I.D. No.	01-00162					
4. Brief Project Description:	Replace existing fryer					
	FACILITY INFORMATION					
5. Owned/operated by: (√if applicable)	Federal government County government State government City government					
6. Primary Facility Permit Contact Person/Title	David M. Durkin, Vice-President					
7. Telephone Number and Email Address	208-344-1183 ext. 504: ddurkin@banddfoods.net					
8. Alternate Facility Contact Person/Title	Gary W. Shaw, Chief Administrative Officer					
9. Telephone Number and Email Address	208-344-1183 ext. 206: gshaw@banddfoods,net					
10. Address to which permit should be sent	P.O. Box 16450					
11. City/State/Zip	Boise, Idaho 83715					
12. Equipment Location Address (if different than #10)	3491 S. T.K. Ave.					
13. City/State/Zip	Boise, Idaho 83705					
14. Is the Equipment Portable?	Yes No					
15. SIC Code(s) and NAISC Code	Primary SIC: 2038 Secondary SIC (if any): NAICS: 31/41					
16. Brief Business Description and Principal Product	Value added protein food processing company					
17. Identify any adjacent or contiguous facility that this company owns and/or operates	Administrative offices located at 3243 S. Federal Way, Suite B, Boise, Idaho 83705					
	PERMIT APPLICATION TYPE					
18. Specify Reason for Application	 □ New Facility □ New Source at Existing Facility □ Unpermitted Existing Source □ Modify Existing Source: □ Permit Revision □ Required by Enforcement Action: 					
	CERTIFICATION					
IN ACCORDANCE WITH IDAPA 58.01.01.123 (AFTER REASONABLE INQUIR)	IN ACCORDANCE WITH IDAPA 58.01.01.123 (RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.					
19. Responsible Official's Name/Title David M. Durkin, Vice President						
20. RESPONSIBLE OFFICIAL SIGNAT	URE Dand M. Date: 5-16-07					
21. Check here to indicate you would like to review a draft permit prior to final issuance.						

PREFACE

Following is a description of our project for which we need a permit to modify our permitted system. The existing system is permitted under permit# 050006, 6/09/06. We are replacing an existing hot oil cooker which is over 20 years old with a new unit which has better filtration qualities on the exhaust portion of the unit which should equate to less overall emissions from the system. The only difference in the entire overall system is the new cooker will be fired with a 1.8 million BTUH natural gas burner versus 1.5 BTUH unit on the existing cooker. Attached is a system schematic for the whole project and you can see that nothing has changed but the size of the burner in the new cooker. The cooker exhaust, as well as the oil filter unit exhaust are taken through a dry fume scrubber and then through the existing Maxon incinerator which is natural gas fired and is 99.99% efficient. Our calculations are following this description covering your requirements.

PROCESS DESCRIPTION

Raw meat which has been cut into processing size, is first dusted with a flour and flavoring mix and then sent through a liquid battering machine. The product is then put in a continuous conveyor type hot oil cooker. As it exits the fryer it is sent across a shaker which removes crumbs and excess oil. The product then is sent through another batter machine and cooked a second time in another conveyor type continuous cooker. The product exits the cooker and is conveyed to a low temperature spiral freezer prior to packaging and distribution.

DATABASE INFORMATION

Following is the data from the fryer manufacturer, B & D Foods and anything pertinent to the proper operation of the frying system.

COOK TIME;

Normal Processing Schedule: Eight (8) to Twelve (12) hours per day Six (6) days per week Fifty (50) weeks per year

Maximum Processing Schedule: Sixteen (16) hours per day Seven (7) days per week These cook times would be for short periods, lasting from a few days to a week or two (2)

FINISHED PRODUCT PARAMETERS

Pounds produced per hour, normal schedule, 2,700 to 3,000 Meat by weight, 50% to 55% Batter, 45% to 50% Oil carry out, 10 to 14% of batter weight, (150 lbs per hour)

NOTE: The above data is based on production rates with the new fryer installed.



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•	CÔMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER							
1. Company Name LJD Holdings, Inc. dba B and D Foods								
2. Facility Name B and D Foods 3. Facility ID No 001-00162								
4. Brief Pr One sente	4. Brief Project Description - One sentence or less Food Processing, meat products							
60	PERMIT APPLICATION TYPE							
5. New	v Facility L lify Existing	_] New Source at Existing Facility Unpermitted Existing Source: Permit NoP. — 0 5 0 0 € Issued: _ 6 / 9 / 0 6	ource					
		forcement Action: Case No.:						
6XX Min		Major PTC FORMS INCLUDED						
			DEQ					
Included	N/A	Forms	Verify					
XX		Form GI – Facility Information						
XX		Form EU0 – Emissions Units General						
	ХX	Form EU1 - Industrial Engine Information Please Specify number of forms attached:						
	хx	Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached:						
	Form EU3 - Spray Paint Booth Information Please Specify number of forms attached:							
	Form EU4 - Cooling Tower Information Please Specify number of forms attached:							
	XX	Form EU5 – Boiler Information Please Specify number of forms attached:						
	ХХ	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached:						
	Form CBP - Concrete Batch Plant Please Specify number of forms attached:							
	Form BCE - Baghouses Control Equipment							
	ХX	Form SCE - Scrubbers Control Equipment						
XX		Forms El-CP1 - El-CP4 - Emissions Inventory- criteria pollutants (Excel workbook, all 4 worksheets)						
ХX		PP – Plot Plan						
иk	χX	Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)						
	ХĮХ	Form FRA – Federal Regulation Applicability						

DEQ USE ONLY Date Received
10/15/07 AQ DIVISION
Project Number
Payment / Fees Included? Yes No
Check Number 23722 + 23973



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	PERMIT APPLICATION TYPE					
New Facility ☐ New Source at Existing Facility ☐ Unpermitted Existing Source Modify Existing Source: Permit No.:050006 Date Issued: June 9, 2006 ☐ Permit Revision ☐ Required by Enforcement Action: Case No.:						
	CERTIFICATION					
IN ACCORDANCE WITH IDAPA 58.01.01.123 (RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.						
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Company Name:		Facility N	Name:		1 .	y ID No:
B & D FOODS, INC.		S	Same as Co	ompany	001-	000162
Brief Project Description:	· ·	1				
STATEMENT	NO SNO!	IT (PROC	CESS) IDENTI	FICATION &	DESCRIPTIO	
1. Emissions Unit (EU) Name:	Hot	0il C	Cooker, Ec	lipse bu	ırner	
2. EU ID Number:	P/N	IJ004	NTXCN XXX	XXXXXXX,	s/N0722	1955-0001-1
3. EUType:NG Burner	□ New S X Modific	ource Cation to a Pe] Unpermitted Exi ermitted Source -	isting Source Previous Permi	t#: Date	e Issued:
4. Manufacturer:	Eclip	se Bur	ner			
5. Model:	4" IJ	. Vers	sion 2			
6. Maximum Capacity:	1.8 m	illin	втин			
7. Date of Construction:	June	2006				
8. Date of Modification (if any)	10/01					
9. Is this a Controlled Emission Unit?			es, complete the fo			3. Santa de la companya
		EMISSION	ns control	, EQUIPMEN		
Control Equipment Name and ID:			· · · · · · · · · · · · · · · · · · ·			
11. Date of Installation:			12. Date of Mod	lification (if any):		
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than en units(s) involved?	nission	☐ Yes [□ No			
16. Does the manufacturer guarantee the	control	Yes [☐ No (If Yes, att	ach and label m	anufacturer guara	n(ee)
efficiency of the control equipment?				Pollutant Cont	rolled	1
	PM	PM10	SO ₂	NOx	voc	CO
Control Efficiency						
17. If manufacturer's data is not available,	attach a se	parate shee	et of paper to provi	ide the control ed	quipment design s	pecifications and performance data
to support the above mentioned control et	ficiency.					
EMISSION	MARTINE:	ERATING	SCHEDULE	(hours/day,	hours/year (o	rother)
18 Actual Operation	Eigh	t to T	welve hr.	/day, 6d	ays/wk, 5	0 wks./yr.
19. Maximum Operation	12 h	rs/day	, 50 wks.	/yr. 6 d	ays/wk.	and the state of t
		. K	EQUESTED	_IMITS		
20. Are you requesting any permit limits						
Operation Hour Limit(s):					· · · · · · · · · · · · · · · · · · ·	
☐ Material Usage Limit(s):						
Limits Based on Stack Testing	Plea	se attach all	relevant stack tes	sting summary re	ports	
Other:						
21. Rationale for Requesting the Limit(s	s):					

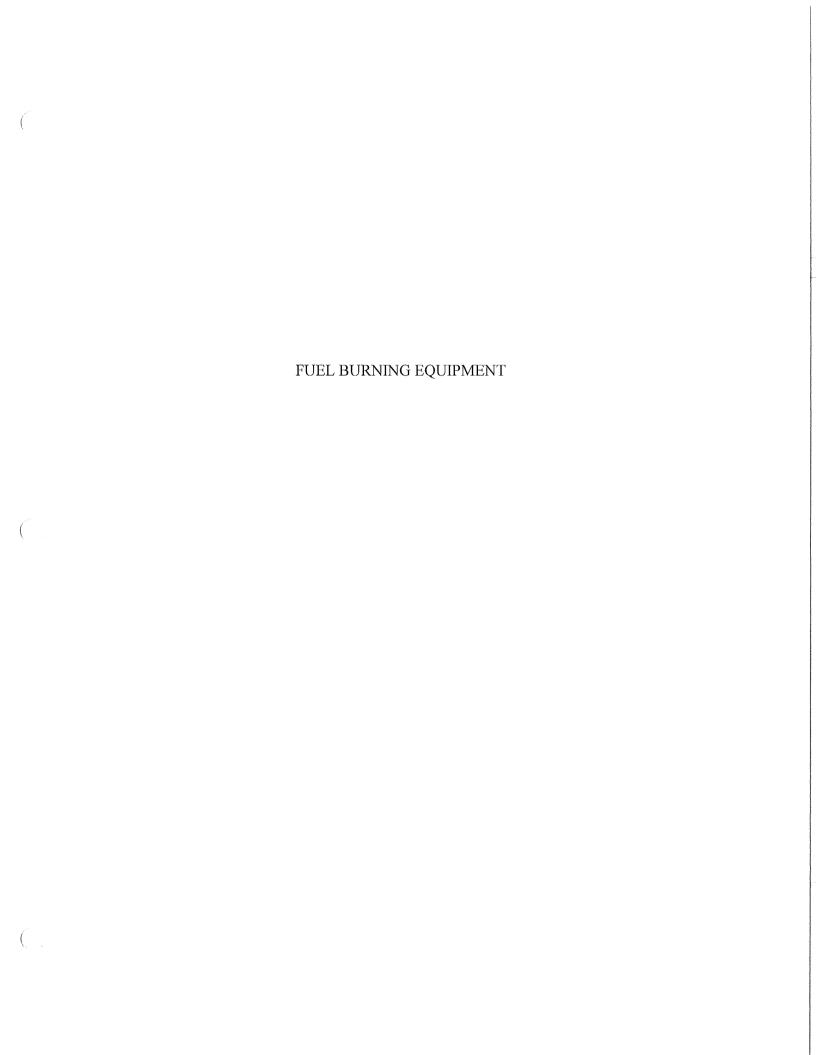


Emissions for b and d foods

	Oct 2007	Total
Natural Gas (MMBtu)	962.3	962.3
CO ₂ (tons)	56.3	56.3
NO _x (lbs)	144.3	144.3
N2O (lbs)	2.1	2.1
SO ₂ (lbs)	0.6	0.6
PM ₁₀ (lbs)	1.8	1.8
VOC (lbs)	5.2	5.2
CO (lbs)	23.1	23.1
Hg (lbs)	*	*
Cd (lbs)	*	*
Pb (lbs)	*	*

^{*} Amount is less than 0.05 lbs.

Emission factors were calculated in 1998 in a federal study done by the $\underline{\text{Leonardo Academy}}$. Emissions values here are calculated for your information only.



REGULATED SOURCES

HOT OIL HEATERS

Burner# 1

This burner fires thru a firing tube located in the cooking tank which is in direct contact with the cooking oil and the product being cooked. A description of the burner is in the burner section of this application.

Manufacturer: Eclipse Model: 4" I J. Version 2

Rated Heat Capacity: 1.80 MMBtu/hr.

Fuel Type: Natural Gas

The Eclipse burner is very similar to the previous Maxon burner but has a capacity of 300,000 Btuh more than the Maxon unit.

Stack Specifications

Stack height (ft.): 34 Stack diameter (ft.) 0.667 Stack exhaust gas temperature (Degrees F) 785 Stack exhaust gas flowrate (acfm) 2278

Burner# 2

This burner remains as before. There are no changes.

Manufacturer: Maxon

Model: #422M

Rated heat capacity 1.44 MMBtu/hr

Fuel type: Natural Gas

Stack Specifications

Stack height (ft.): 33 Stack diameter (ft.): 0.833 Stack exhaust gas temperature (Degrees F) 785 Stack exhaust gas gasflow rate (acfm) 1852

Mist Eliminator Section

This portion, referred to as the scrubber, has an all stainless steel housing with the internals supplied by Amistco. The former scrubber had the internals supplied by Munters Corporation

Manufacturer: Amistco Separation Products, Inc.

Model: Item# 10101, TM-1109

Efficiency: 99.9%

Incinerator Section

Manufacturer: Maxon Corporation Model: NP-II, Combust-A-Fume Rated heat cpacity: 1.5 MMBtu/hr

Efficiency: 85% for PM 10

Fryer# I Inputs:
Maximum product input capacity: (T/hr) 2.0
Normal maximum input capacity:(T/hr) 1.5
Normal maximum output capacity:(T/hr) 1.23

Facility I.D. # 001-000162

Fryer/Burner #1

Manufacturer: Eclipse

Model No.:4" IJ Type: Premix

Rated Heat Input: 1.8 MMBTU/hr.

Heat Usage: 100% Process

Fuel Type: Natural Gas

% Sulfur -0-% ash -0-

% Nitrogen 1-2

% Carbon -0-

% Hydrogen -0-

% Moisture -0-

Heat content: 1K BTU/cu.ft. Maximum burned/hr.: 330,000/hr.

Burned/yr.: 11,880

Operating Schedule

Hours/Day: 12 Days/Week: 6 Weeks/Year: 50

Stack I.D.: 8.0" Height: 33.0 ft. Exit Dia.: 8.0"

Exit Gas Volume: 2,278 acfm Exit Gas Temp.: 785 degrees F

Criteria Pollutant Estimated Emissions

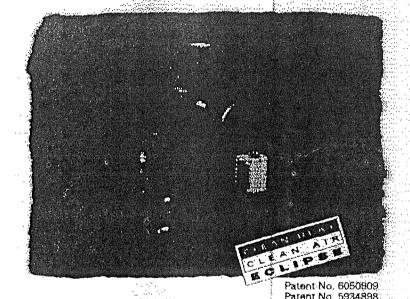
Particulates: -0- lbs./hr, -0- lbs./yr.

Sulfur Dioxide: 0.00034 lbs/hr., 0.00034 tons/yr. Carbon Monoxide; 0.0084 lbs./hr., 0.00094 tons/yr. Nitrogen Oxides: 0.0049 lbs/hr., 0.0051 tons/yr,



IMMERSOJET BURNERS

High-Efficiency Immersion Heating Systems



By combining high efficiency with small diameter tubes, the immersoJet gives you great design flexibility. With

Minimize tank size. Reduce material and fabrication costs; and conserve floor space.

Reduce operating costs. Minimize fuel costs, or increase production.

Reduce area requirements.

ImmersoJet you can:

ImmersoJet tubes take up less space in a tank, allowing you greater design flexibility.

Standard burner can be configured for natural gas, propane or butane fuel.

Eclipse Eclipse Combustion

Designed for high performance and convenience.

ImmersoJet burners fire at high capacities through a small diameter immersion tube. The combustion gases from the burner scrub the inner tube surfaces to produce the highest heat transfer rate of any immersion burner available.

Other ImmersoJet benefits are:

- Produces the industry's highest heat capacities and efficiencies.
- Tube requirements save valuable space inside the tank.
- Comes mounted with a reliable low or high pressure blower for ease of installation.
- Quickly transfers heat to the immersion tube, resulting in lower burner surface temperature.
- Provides faster heat-up times than any other immersion burner.
- Combustion chamber is outside the tank, taking up less space and providing more uniform heat.
- Unique nozzle design erisures quiet operation.

Ideal for retrofits.

In conventional immersion heating, every cubic inch of a tank is crammed with a bulky, large diameter tube. Replacing this tube with a compact ImmersoJet tube can provide substantial advantages:

- · Easier tube fabrication
- · Lower tube material costs
- Easier handling and installation
- · Reduced fuel costs
- · Higher tank temperatures

Perfect for new tanks, too.



Immersolet Burners

Provides 80%+ efficiencies and space-saving tube requirements.

High Velocity Equals High Efficiency

When you compare state-of-the-art ImmersoJet design with conventional immersion burners and tubes, ImmersoJet clearly comes out on top.





- A lazy, low velocity flame travels down the tube causing a "dead gas film" to build up on the inside wall, reducing heat transfer efficiency.
- Tube size limits system efficiency potential to 70%

Eclipse Combustion ImmersoJet Profile



- A robust, high velocity flame scrubs the inner tube surface, minimizing dead gas film.
- System efficiencies in excess of 80% are possible with smaller tube configurations.

Conventional

Equal Heat in Half the Area!

Compare the conventional tube with the tube designed for use with the immersoJet, each designed for 70% efficiency with an input of 1 MM Btu/hr. Clearly, the immersoJet style tube is much smaller.

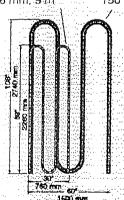
If this were a new tank, you could reduce tank size to fit the ImmersoJet tube, saving floor space and material costs.

Or, if floor space permits, you could lengthen the immersoJet tube and possibly add another pass in order to achieve efficiencies in excess of 80%.

In either case, ImmersoJet provides great flexibility in designing an immersion system that best meets your specific performance and space requirements.

ImmersoJet

4" Dia., 30" Long 6" Dia., 37" Long 76 mm, 9 m, 150 mm, 11 m



ECHPSE

Hollpen Combustion

www.eclipsanet.com

Data 330-4 10/21/05



ImmersoJet Burners

Model 4" IJ

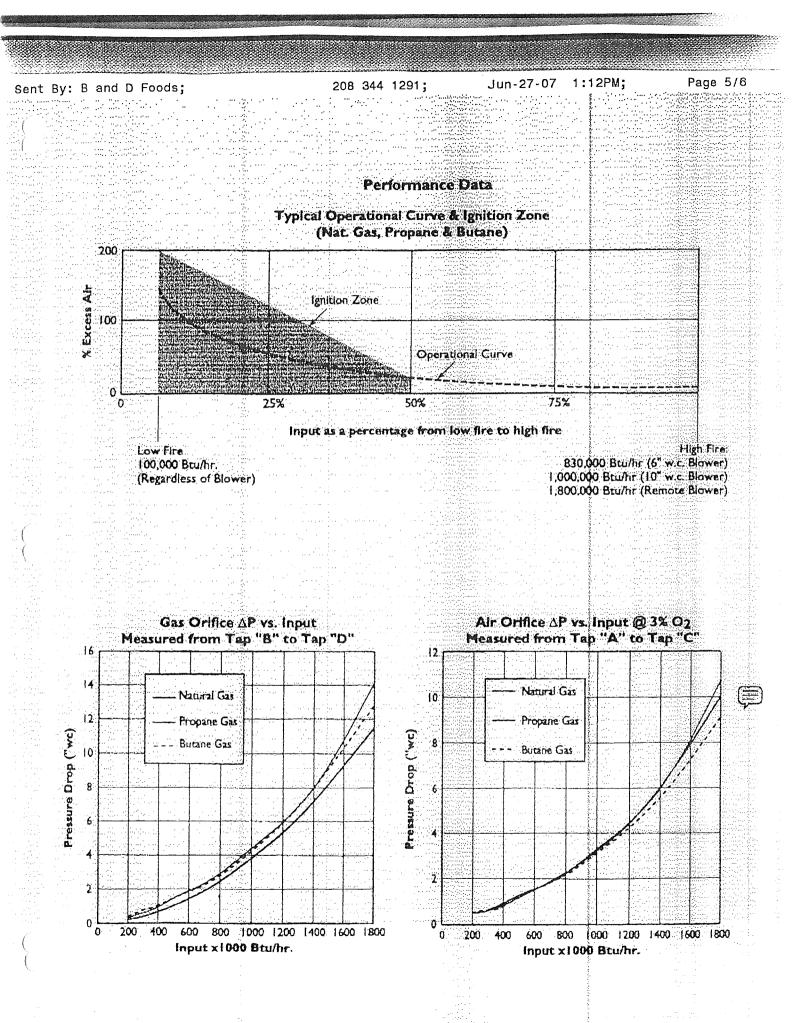
Main Specification

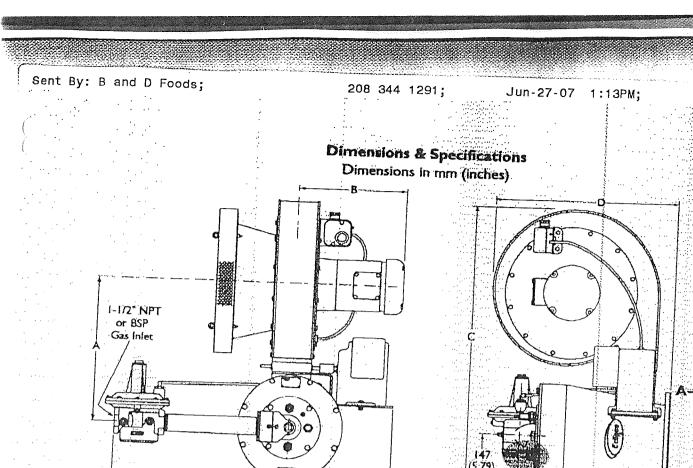
PARAMETER					
8lower Type	6" w.c. Packaged (60Hz)	10" w.c. Packaged (60H	z) Remote Blower		
Maximum Input (Bew/hr)	830,000	1,000,000	1,800,000		
Minkmum Input (Bau/hr)	100,000	100,000	100,000		
Air Inlet Pressure ("w.c.) @Max Input —Air pressure at burner inlet (Tep "A")	7.8	10.5	33		
Blower Motor Horse Power		1.0	As Specified		
Main Gas Pressure ("w.c.) Into regulator Max.	125	125	125		
Min.	10	13	34		
Tube Backpressure (W.C)	3.0	3.8	12.2		
Weight-less accuator (lbs)	115	120	75		
CO emissions (ppm)	<100	<100	<100		
Piping	N.P.T. or B.S.P.				
Hame Detection	Plamerod or U.V. Sou	Flameroid or U.V. Scanner.			
Fuel (1)	Natural gas, Propane For any other mixed go	Butane is, contact Eclipse for orif	ice stzing.		

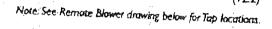
(1) Different fuels require different nazzles and orificles,

- All Information is based on laboracory testing with a tube effective length of \$1.75 feet. Different tube sizes and conditions may affect the data.
- · All information is based on standard tube design. Changes in the tube will alter performance and pressures.
- * All inputs based upon gross caloric values.
- Eclipse reserves the right to change the construction and/or configuration of our products at any time without being obliged to adjust earlier supplies accordingly.
- Plumbing of air and gas will affect accuracy of orifice readings. All information is based on generally acceptable, air and gas piping practices.

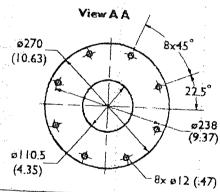








491 (19.3)



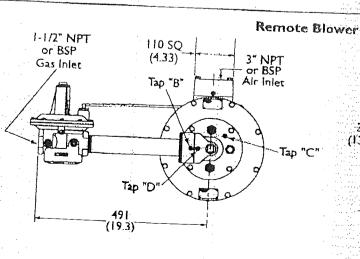
Ø.						
		А	60Hz	B 50 Hz		
	Low Pressure Blower	374 (14.70)	315 (12.38)	263 (f0.34)	725 (28.50)	452 (17.77)
	High Pressure Blower	404 (15.88)	348 (13.68)	304 (11.95)	786 (30.90)	512 (20.13)

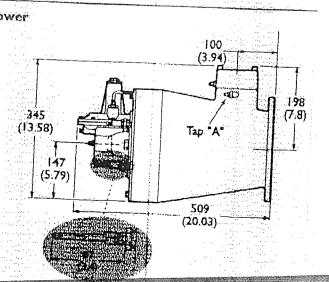
420.6 (16.54) To (LG s Inlec

+ -12 (472)

Adapter to tank wall 101.6 (4) Max

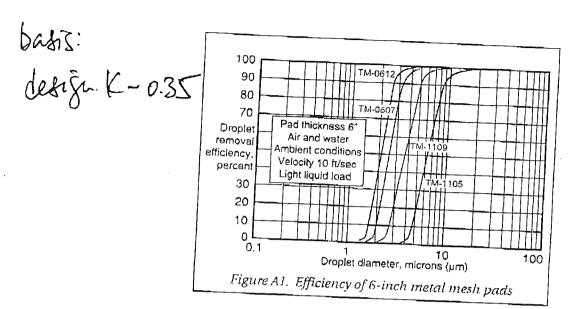
Page 6/6

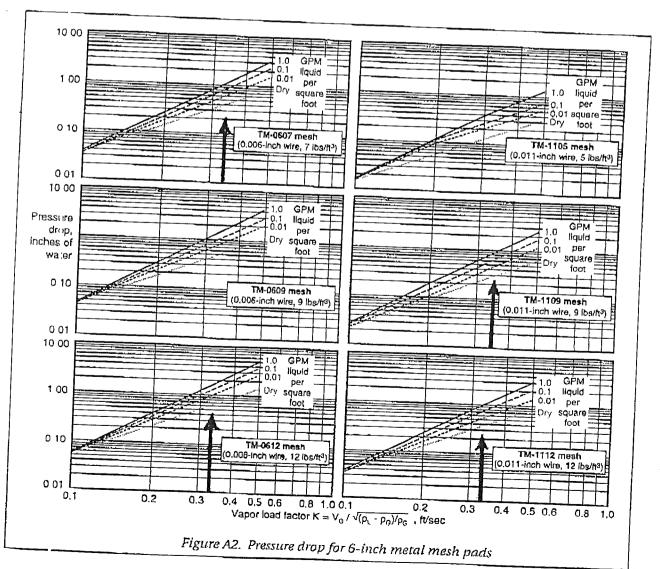


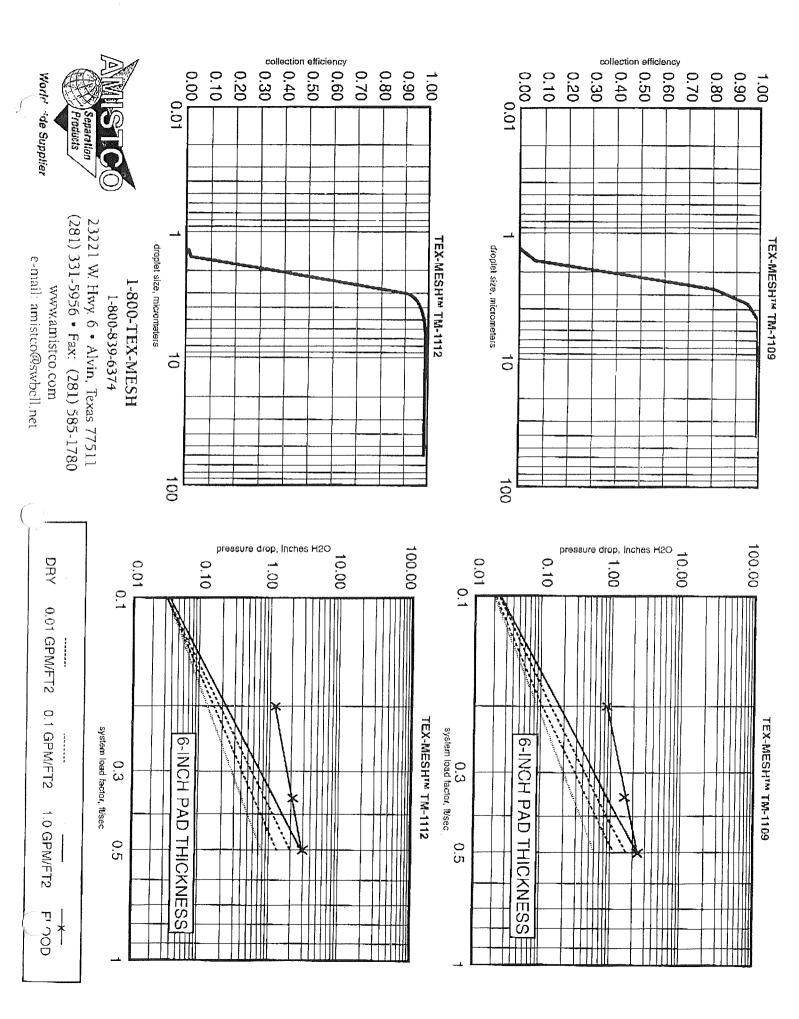


To: Carl Re: DP info

Appendix



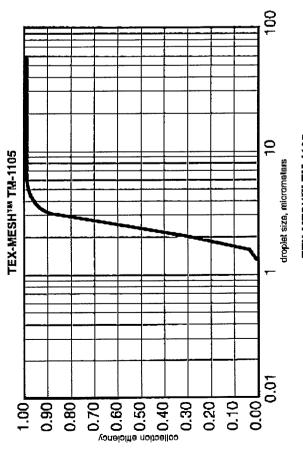


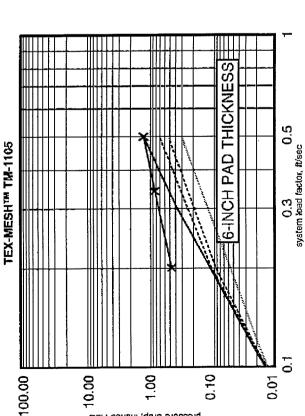


E0/E0

Amistco Mist Eliminator Performance Curves For TEX-MESHTM TM-1105, TM-1109, and TM-1112







OZH senoni (dovo eneseng

Interpreting Amistco TEX-MESHTM Performance Curves

function of droplet diameter for a vapor velocity corresponding to a system load factor* of 0.35 ft/sec. To estimate overall collection efficiency, the pad thickness, system load TEX-MESH efficiency curves express collection efficiency of a 6 inch thick pad as a factor, and droplet-size-distribution must be factored into the estimate.

2815851780

tions. Generally, efficiency diminishes significantly for pad thicknesses less than 4 inches The effects of pad thickness and system load factor are based on proprietary correlaand system load factor less than 0.1 ft/sec.

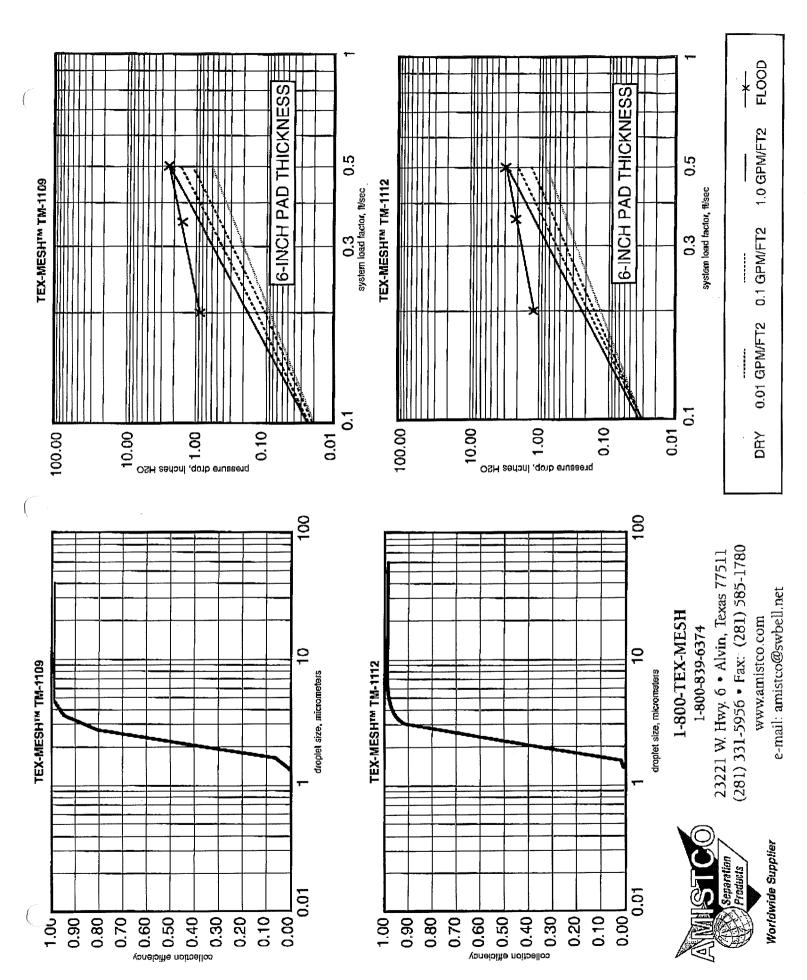
The D99 point is the droplet diameter at which the efficiency curve crosses the 99% line. If diameter, then the overall entrainment removal efficiency of the mist eliminator, properly distribution overlaps the efficiency curve, then the overall entrainment removal efficienthe entrained liquid in a gas stream is composed entirely of droplets larger than the D99 sized, will be greater than 99.9%. On the other hand, if the droplet-sizecy will be less than 99.9%.

ution is based on field experience. Entrainment arising from mechanical processes (boiling, two phase processes, seal leakage, surface condensation, etc.) typically produces droplets In most design problems concerning entrained droplets, the actual droplet-size-distriblarger than 20 microns. Entrainment arising from chemical processes (reaction, endogenous condensation, etc.) typically produces droplets in the submicron range.

performance curves. In general, however, most systems are analogous in performance to Because of diferences in the physical properties (densities, viscosities, and surface tension), the actual performance of a given system may be somewhat different from the TEX-MESH performance curves are based on data for an upflow air/water system. an air/water system.

Mist pads for horizontal flow are typically designed for higher velocity (K factor 0.5 curve upward somewhat. Consequently, the entrained liquid flux hinit (gpin/sqft)is somewhat higher. Furthermore, crossflow drainage shifts the reentrainment (flood) tusec instead of 0.35 tusec for upflow). The resulting collection efficiency will be somewhat higher than upflow.

Vapor Velocity x (Vapor density)*1/2 (Liquid density - Vapor density) 1/2 System Load Factor= -



INCINERATOR BURNER AND SCRUBBER

Process: Hot Oil Cookers, Numbers I & II

Maximum Rate Input Capacity: 2.0 Tons/Hr. Normal Maximum Feed Input: 1.5 Tons/Hr.

Total Tons per Year: 5,400.00

Normal Maximum Product Output: 1.23 Tons/Hr., 4,428 Tons/Yr.

Process Equipment

Type:Conveyor

Manufacturers:

Fryer#I, Food-design, Immerso-Cook, Model# 2395.01.900

Fryer#II, No change, same as before Maxon, M422

Feed Material: Beef and Poultry

Operating Schedule: 12 hour/day

6 days/week 50 weeks/year

Exhaust Data: (Two (2)) Fryers, The exhaust for both fryers have been combined prior to

entering the Scrubber/Incinerator

Stack ID entering the scrubber: 30" dia. (7.07 sq. ft.)

Stack Height: 36 ft.-0"

Stack Exit Dimension: 3.0 sq.ft. Exit gas volume: 9,500 acfm

Exit gas temperature: 535 degrees F

Pollution Control Equipment

#I Fryer, Coalescer on fryer exhaust stack: Efficiency: 99.9% of PM10

Primary control equipment: Dry Scrubber Manufacturer: Amistco Separation Products

Model# 10101, TM-1109 Percent efficiency:99.93

Secondary control equipment: Incinerator, natural gas burner

Manufacturer: Maxon Corp.

Model No.: NP-II Efficiency: 99.9%

Pressure drop: 1.5"w.c., scrubber plus 0.25"w.c., burner, Total: 1.75"w.c. delta P

Criteria Pollutant Estimated Emissions

Particulates: 0.0018 lbs./hr 0.0032 tons/yr.

Uncontrolled Emissions

Toxic Pollutants: -0-

Contrlled Emissions

Breading: 0.0018 lbs./hr. 0.0032 tons/yr.

Oil: 0.02 lbs./hr. 0.036 tons/yr.